

L62 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2000:166259 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 132:210209  
 TITLE: Secondary nonaqueous-electrolyte batteries with  
 electrolytes containing cyanoethoxy  
 compounds  
 INVENTOR(S): Kobayashi, Aya; Izuchi, Shuichi  
 PATENT ASSIGNEE(S): Yuasa Battery Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000077096	A	20000314	JP 1998-244674	19980831
PRIORITY APPLN. INFO.:			JP 1998-244674	19980831

OTHER SOURCE(S): MARPAT 132:210209

ED Entered STN: 14 Mar 2000

AB Claimed batteries are equipped with electrolytes containing cyanoethoxy  
 compds. R(OC<sub>2</sub>H<sub>4</sub>CN)<sub>n</sub> (n = 1-4; R = CmH<sub>2m+2</sub>-n, CmH<sub>2m+2</sub>-n(OC<sub>2</sub>H<sub>4</sub>)<sub>p</sub>, CmH<sub>2m+2</sub>-nCO,  
 or CmH<sub>2m+2</sub>-nOCO; m = 1-3; p = 1-4) as nonaq. solvents for Li salts.  
 Optionally, the batteries are equipped with gelled polymer electrolytes. The  
 batteries have long cycle life at low temperature

IT 14283-07-9, Lithium tetrafluoroborate  
 (electrolytes; nonaq. batteries with electrolytes containing  
 cyanoethoxy compds. for long cycle life at low temperature)

RN 14283-07-9 HCAPLUS

CN Borate(1-), tetrafluoro-, lithium (1:1) (CA INDEX NAME)



● Li+

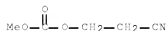
IT 96-49-1, Ethylene carbonate 108-32-7, Propylene  
 carbonate 260362-83-2  
 (solvents; nonaq. batteries with electrolytes containing  
 cyanoethoxy compds. for long cycle life at low temperature)  
 RN 96-49-1 HCAPLUS  
 CN 1,3-Dioxolan-2-one (CA INDEX NAME)



RN 108-32-7 HCAPLUS  
 CN 1,3-Dioxolan-2-one, 4-methyl- (CA INDEX NAME)



RN 260362-83-2 HCAPLUS  
 CN Carbonic acid, 2-cyanoethyl methyl ester (CA INDEX NAME)



IC ICM H01M010-40  
 CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)  
 ST cyanoethoxy compd nonaq electrolyte solvent battery; lithium  
 battery electrolyte solvent cyanoethoxy compd  
 IT Secondary batteries  
   (lithium; nonaq. batteries with electrolytes containing  
   cyanoethoxy compds. for long cycle life at low temperature)  
 IT Battery electrolytes  
   (nonaq. batteries with electrolytes containing cyanoethoxy  
   compds. for long cycle life at low temperature)  
 IT Polyoxyalkylenes, uses  
   (trifunctional acrylates, lithium complexes, gelled electrolytes;  
   nonaq. batteries with electrolytes containing cyanoethoxy  
   compds. for long cycle life at low temperature)  
 IT 14283-07-9, Lithium tetrafluoroborate  
   (electrolytes; nonaq. batteries with electrolytes containing  
   cyanoethoxy compds. for long cycle life at low temperature)  
 IT 25322-68-3D, Polyethylene glycol, trifunctional acrylates, lithium  
   complexes  
   (gelled electrolytes; nonaq. batteries with electrolytes containing  
   cyanoethoxy compds. for long cycle life at low temperature)  
 IT 96-48-0,  $\gamma$ -Butyrolactone 96-49-1, Ethylene carbonate  
   108-32-7, Propylene carbonate 110-67-8 1656-48-0, Bis-2-  
   cyanoethyl ether 2141-62-0 3386-87-6 5325-93-9  
   20597-73-3 32846-35-8, Bis 2-cyanoethyl carbonate  
   35633-51-3 260362-83-2  
   (solvents; nonaq. batteries with electrolytes containing  
   cyanoethoxy compds. for long cycle life at low temperature)